

Influence of admixture of cellulose nitrate on the properties of acetate films. I. O. Gubina and L. A. Kuznetsov. *Tekhn. Kibernetika*, Vol. 11, No. 6, 1969, pp. 100-104. (USSR)

Cellulose nitrate admixture to acetate films results in a more resistant than pure cellulose nitrate film, especially in wet folding. The properties of the films obtained when the admixture is 40% nitrate. The swelling of mixed base is an additive property and is calculated from the swelling of the pure nitrate and acetate. The rate of burning is a linear function of the cellulose nitrate content in the base but is also very dependent upon the nature of the plasticizer used. The range of decomposition consists through the range of 100-105°C. Cellulose nitrate, for contents of 10% and below, increases the proportion of the content of the cellulose nitrate admixture. However, less than 30% of cellulose nitrate admixture is sufficient to match the properties of the pure acetate film even when no water is present. (U.S.S.R.)

ASH 51.6 METALLURGICAL LITERATURE CLASSIFICATION

PROPERTIES AND PROPERTIES INDEX

The composition of cellulose nitrate films. E. S. Shre-  
man and A. Yu. Ginosman. *Kinefotokhim. Prom.*  
6, No. 7, 29-34(1910). S. and G. compare the compo-  
sition of Soviet, Agfa and du Pont films. The different compo-  
nents of the films are detd. as follows: Cellulose nitrate is  
pptd. in  $H_2O$  from a 5% acetone soln. Then the plasti-  
cizer is removed with a mixt. of EtOH and petr. ether and  
the residue dried to const. wt. The camphor is detd. by  
Zueva's method (C. J. 35, 2466) by dissolving the base  
in a pure alc. soln. of NaOH, distn. of the camphor and  
pptn. as the dimethylphenylhydrazone. The residual sol-  
vents are not detd. by the usual boiling of the film base in  
 $H_2O$  and distn. of the solvents, because this also removes  
the camphor and high-boiling aces. S. and G. suggest,  
instead, plotting curves of the loss of wt. by drying and  
detn. of the alc.- $H_2O$  moisture by A. A. Schmidt's method  
using  $CaCl_2$  in a very small space to absorb alc. and  $H_2O$   
but not acetone and acetates. The amt. of cellulose ni-  
trate and N found in du Pont and Agfa films was much  
greater than the corresponding amts. in Soviet films.  
The stability of all films was within permissible limits.  
The ash content of du Pont and Agfa films was generally  
lower than that of Soviet films. The viscosity of Agfa  
film was the same as that of film made in Soviet factory  
No. 5 but higher than that of films made by du Pont and  
Soviet factory No. 6. The polydispersion of foreign films  
was much lower than that of Soviet films, but this is  
probably due to the higher quality of the linters and the  
more perfect production methods of the former.

W. R. Fichter

ASA-SLA METALLURGICAL LITERATURE CLASSIFICATION

SAFETY SYMBOL

UNION MAY ONE ONE

REVISION ONE

REVISION ONE

REVISION ONE

Author, S. S.

And Chen Shi

Dissertation: "Investigation of the S.P. ability of fibrous triacetates of cellulose and products of their partial heterogenization by sulfonation."

In June 1971

All-Union Scientific Institute of Chemical Research

SO Vecheryaya Moskva  
Sum 71

CA

Heterogeneous hydrolysis of triacetylcellulose. I. 2.  
Sternin and L. O. Gol'dman. *Chem. Abstr.* 1962, Moscow  
2349. *Tricellulose* (J. Applied Chem. 28, 81, 1952).  
Partial hydrolysis of cellulose triacetate by  $\text{AlH}_3\text{SO}_4$  at room  
temp. causes a significant depolymerization of the sub-  
stance. The product obtained from the production type of  
fibrous triacetate made in U.S.S.R. is not completely and  
is  $\text{AlH}_3\text{SO}_4$ . The hydrolysis is carried out with 1 part  $\text{AlH}_3\text{SO}_4$   
to 10 parts of triacetate. The viscosity of the product  
of the reaction occurs within 72 hrs. The viscosity of the  
product changes very little during the reaction. The prod-  
uct can be reacylated and the process repeated several  
times without appreciable change in viscosity or degree of  
polymerization. Products with 55-87% acetate group  
well very considerably in acetone and dissolve in part.  
Separation of the solid part is impossible by the technique used  
described here. G. M. Kozlov.

CA

23

Solubility of acetylcellulose in acetone. P. V. Korlov and E. S. Sherman, *Zhur. Priklad. Khim.* (J. Applied Chem.) 25: 981-91 (1952). --Cellulose acetates with 52-85% Ac groups prepd. by homo- and heterogeneous conditions of acetylation and subsequent hydrolysis were examd. as to their solv. in  $\text{Me}_2\text{CO}$ . The solv. is detd. largely by the mol. wt. (i.e., extent of polymerization). Secondary acetates, prepd. by homogeneous esterification and hydrolysis, show lower than normal mol. wt. owing to depolymerization and, hence, higher solv. Products formed in heterogeneous conditions under mild conditions show only partial solv. owing to the presence of varying amts. of low-mol. wt. products. Their depolymerization causes appearance of complete solv. in  $\text{Me}_2\text{CO}$ . Results are cited for numerous grades of native (U.S.S.R.) and imported cellulose acetates. G. M. K.

SHERMAN, F. S.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
Cellulose and Paper

②  
Solubility of acetylcellulose in acetone / P. V. Kozlov  
and F. S. Sherman, *J. Appl. Chem. U.S.S.R.* 25: 121-3  
(1952) (Engl. translation).--See C.A. 46, 7325g.

H. L. H.

9-7-54

SHIMAMOTO, T. S.; SHIMAMOTO, T. S.

Cellulose triacetate

Heterogeneous hydrolysis of cellulose triacetate. Zhur. prikl. khim. 26 no. 1 (1952)  
Vsesoyuznyy Nauchno-Issledovatel'skiy  
Kino-fotoinstitut. Moskva

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

SHERMAN, F. S.

Solubility of fibrous cellulose triacetate and products of  
its partial heterogeneous saponifications in mixtures of  
methylene chloride with alcohols. F. S. Sherman and P. V.  
Kozlov. *J. Appl. Chem. U.S.S.R.* 46, 483-50 (1953) (Engl.  
translation).—See *C.A.* 47, 10839i.  
H. L. H.



SHERMAN, F.S.; KOZLOV, P.V.

Solubility of fibrous cellulose triacetate and products of its partial heterogeneous saponification in mixture and methylene chloride with alcohols.  
Zhur. Priklad. Khim. 26, 524-31 '53. (MLRA 6:5)  
(CA 47 no.20:10839 '53)

SHEKIMAN, F.S.

*Photo  
chem*

11728\* (Russian.) Physico-Chemical Properties of Triacetate  
Movie Film and Film Bases at Elevated Temperatures. Fiziko-  
mekhanicheskie svoistva triatsetatnoi kinoplenki i osnovy  
pri povyshennykh temperaturakh. F. S. Sherman, B. N.  
Korostylev, and I. M. Fridman. Tekhnika-Kino i Televideniia,  
no. 2, Feb. 1957, p. 54-58.

Tear resistance of triacetate film materials decreases with rising  
temperature to a greater extent than that of film materials based  
on nitrocellulose.

*PM*

*all day*

AUTHOR: Sherman, F.S. SOV 77-3-4-18/23

TITLE: New Synthetic Materials as a Base for Photographic Films  
(Novyye sinteticheskiye materialy dlya osnovy fotograficheskikh plenok)

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, 1958,  
Vol 3, Nr 4, pp 295-299 (USSR)

ABSTRACT: The article deals with the process of using polycarbonates as backing material for films, developed and put into practice by the "Farbenfabriken Bayer", GFR, Chemical formulae for the polycarbonates used are listed and the physical properties of films using the various polymers are presented in tabular form. There are 3 tables and 5 references, 1 of which is Soviet, 1 German and 3 English.

1. Photographic films--Materials    2. Carbonates--Applications  
3. Polymers--Applications

Card 1/1

S/187/63/000/002/001/004  
A004/A126

AUTHORS: Timofeyeva, V. G., Sherman, F. S., Podgorodetskiy, Ye. K.

TITLE: Investigating relaxation processes in triacetate films

PERIODICAL: Tekhnika kino i televideniya, no. 2, 1963, 21 - 26

TEXT: The authors investigated the relaxation in nonplasticized cellulose acetate films with different contents of combined acetic acid and at different degrees of tension and temperature. It was found that the cellulose acetate composition affects the relaxation process. The higher the amount of hydroxyl groups in the cellulose acetate, the more difficult is the relaxation process. Then the relaxation process in plasticized films of partially saponified cellulose triacetate was studied at different temperatures and tensions. It was found that the type of plasticizer added to the film affects its macrostructure. Plasticizers of low activity result in a greater reduction in tension under temperature effects than do films without plasticizers. If active plasticizers are added to the film composition, inner stresses resulting from heating due to the effect of loads are more easily removed. Such a film, after relieving the stresses, is in an equilibrium state and is subjected to a minimum shrinkage after watering. To produce

Card 1/2 .

Investigating relaxation processes in...

S/187/63/CCO/002/CC1/CO4  
A004/A126

film bases with such properties, the drying portion of the casting machine should be equipped with devices allowing accurate control of the base tension. Besides, it is necessary to increase the temperature in the final zones of the drying portion of the casting machine up to 120<sup>0</sup>C. There are 4 figures and 3 tables.

Card 2/2

ZELIKMAN, V.L.; SHERMAN, F.S.; DMITRIYEVA, V.A.; KONDRAT'YEVA, Ye.B.

Use of the diffusometric method for determining the sharpness of the photographic image in the manufacturing technology of thin-layer motion-picture films. Usp.nauch.fot. 10:221-229 '64.

(MIRA 17:10)

SHERMAN, G. I.

PA 55/49137

USGR/Electricity  
Generators  
Saturation Curves

May 49

"Determination of the Operational Characteristics of Synchronous Generators, Allowing for Saturation," G. I. Sherman, Cand Tech Bol, 4 pp

"Elektrichestvo" No 5

Describes shortcomings of Potier, Cray, and other methods of determining saturation curves of synchronous generators. Operating diagrams for synchronous generators have been insufficiently developed to date. Considers in some detail

55/49137

USGR/Electricity (Contd)

May 49

the coefficient of saturation and operating diagrams. Submitted 7 Aug 48.

55/49137

SHERMAN, I.

Unsolved problems of transportation law. Rech. tranap. 20 no.5:  
14-16 My '61. (MIRA 14:5)

1. Glavnyy yuriskonsul't Kamskogo rechnogo parokhodstva.  
(Inland water transportation—Law and legislation)



SHEVCHENKO, N.F.; SHERMAN, I.L.; MUZYCHENKO, S.V.; SHEVCHENKO, M.G.,  
tekh.n.red.

[Results of the socialist development of the Ukraine in the  
first ten years of Soviet rule] Itogi pervogo desiatiletia  
sotsialisticheskogo stroitel'stva na Ukraine. Khar'kov,  
Khar'kovskoe obl.izd-vo, 1957. 105 p. (MIRA 12:12)  
(Ukraine--Economic conditions)

SHERMAN, I.Ye.; GRIGOR'YEV, V.N.

Small-scale mechanization in the woodworking shop. Der. prom. 6  
no.10:23-24 O '57. (MIRA 10:11)

1. Leningradskiy vagonostroitel'nyy zavod im. I.Ye. Yegorova.  
(Railroads--Cars--Construction) (Woodwork)

11-11-11 1/8  
SHERMAN, I.Ye.; TIMOSHENKO, Ye.Ye.

Efficient method for making moldings. Der.prom.6 no.12:24-25  
D '57. (MIRA 10:12)

(Woodworking machinery)

28-58-2-27/41

AUTHOR: Timoshenko, Ye.Ye., and Sherman, I.Ye., Engineers

TITLE: More Precise Specifications for the Standard for Wooden Parts of Railway Cars (Utochneniya k standartu na derevyannyye detali zheleznodorozhnykh vagonov)

PERIODICAL: Standartizatsiya, 1958, Nr 2, p 61 (USSR)

ABSTRACT: Amendments are suggested to the "GOST 191-53" standard for wooden parts of wide-track RR-cars. The amendments concern the working of the rules for wood insets (in spots where knots are taken out); the specifications of plywood and wood panels; the surface finish for soaking with antiseptic paste "Vagonka".

ASSOCIATION: Zavod imeni Yegorova (Plant imeni Yegorov)

AVAILABLE: Library of Congress

Card 1/1 1. Railway cars-Construction-Standards 2. Standardization-USSR

SHERMAN, I.Ye.

Cone shaping of parts on a machine with conveying belts. Der.prom.  
8 no.4:23 Ap '59. (MIRA 12:6)  
(Woodwork)

SHERMAN, Ye.Ye.; SHERMAN, I.Ye.

Machine for priming and painting wood parts. Der. prom. 8 no.9:  
26-27 S '59. (MIRA 12:12)

(Wood finishing)

SHERMAN, I.Ye., inzh.

Drills with circular undercutters. Der.prom. 9 no.2:24  
F '60. (MIRA 13:6)  
(Drilling and boring machinery)

SHERMAN, I.Ye.

Drill for deep drilling with simultaneous countersinking. Der.  
prom. 13 no.7:28 J1 '64. (MIRA 17:11)



in. Rank, 1. Ye.

Ordained rose cutter and drill. Der.prom. 14 nov. 1955.  
(VISA 15:12)

1. Leningradskiy vagonostroitel'nyy zavod im. Yegorova.

PEREL'MAN, L.B.; CHLENOV, L.G.; SHERMAN, L.M.

Temporary ligation of the neuro-vascular bundle of the temporal region as a form of reflex therapy of central cerebral disorders in hypertension. Klin. med., Moskva 30 no.9:81-89 Sept 1952. (CLML 23:2)

1. Doctor Medical Sciences for Perel'man; Professor for Chlenov. 2. Of the Institute of Neurology of the Academy of Medical Sciences USSR (Director -- Prof. N. V. Konovalov, Active Member AMS USSR).

SHERMAN, L.M.

ZHIMUNSKAYA, Ye.A.; SHERMAN, L.M.

Electrical activity of the brain in hypertension during provisional  
ligature of the neurovascular bundle of the temporal lobe. Klin. med.  
32 no.7:37-42 J1 '54. (MLRA 7:8)

1. Iz Instituta nevrologii (dir.-deystvitel'nyy chlen AMN SSSR prof.  
N.V.Konovalov) Akademii Meditsinskikh nauk SSSR.

(HYPERTENSION

EEG after temporary interruption of neurovasc. bundle of  
temporal lobe)

(TEMPORAL LOBE

temporary interruption of neurovasc. bundle, eff. of EEG  
in hypertension)

(ELECTROENCEPHALOGRAPHY, in various diseases

hypertension, eff. of temporary interruption of neurovasc.  
bundle of temporal lobe)

RUDERMAN, A.I.; SHERMAN, L.M.

Clinical roentgenologic investigations of the efficacy of a temporary ligation of the neurovascular bundle of the temporal region in gastric and duodenal ulcer. Biul. eksp.biol. i med. 37 no.4:30-34 Ap '54. (MLRA 7:7)

1. Iz rentgenodiagnosticheskogo otdeleniya (zav. prof. I.A.Shekhter)  
TSentral'nogo nauchno-issledovatel'skogo instituta rentgenologii  
i radiologii imeni V.M.Molotova (dir. prof. P.D.Yal'tsev)  
(PEPTIC ULCER, surgery,  
\*temporary neuro-vasc. ligation of temporal region)

2737, SHERMAN L.M. Hosp. Medpiyavka. \* Temporary ligation of the  
neurovascular bundle of the occipital region as a use-  
ful procedure in the 'reflex' therapy of varicose ulcers  
of the leg (Russian text) KLIN. MED. (Mosk.) 1955, 33/3 (91)

Phlogistic manifestations of varicose veins with thrombophlebitis complications can well bring about irritation of the CNS with a re-awakening of pathological reactions that translate themselves into ulcerations. Basing himself on the fact that varicose ulcers may be reactivated by means of a complex reflex action, the author has conceived a method consisting of a reflex generating therapy by means of a temporary ligation of the neurovascular bundle of the occipital region. The author has observed 15 cases undergoing ambulatory treatment for a period of 2 to 10 yr. Eleven patients were afflicted with chronic thrombophlebitis of superficial veins, while in 4 the deep veins were involved. Favourable results with this therapy included 11 out of 15 patients treated over a period of 10-14 days. Complete disappearance of the varicose ulcers and the pain occurred in 8; in 4 the period of follow-up was 16 months, and in 4, about 2-10 months. In 3 cases the ulcers did not heal completely, and in 4, the therapy proved useless. The author has noted a rise in superficial temperature of 0.2 to 8° in cases undergoing this form of therapy. On the positive side of the method is first of all its simplicity of execution without interrupting the work or other activities of the patients.

Parenti - Ferrara

HUDERMAN, A.I.; ZAYRAT'YANTS, V.B.; SHERMAN, L.M.

Weakening of local radiation reactions. Med.rad. 1 no.6:61-65  
N-D '56. (MLRA 10:2)

1. Iz rentgenoterapevticheskogo (rukovoditel' - prof. L.D.Podlya-  
shchuk) i patomorfologicheskogo (rukovoditel' - chlen-korrespondent  
AMN SSSR zasluzhennyy deyatel' nauki prof. B.N.Mogil'nitskiy) otdeleniy  
Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i  
radiologii imeni V.M.Molotova.

(RADIATION, inj. eff.  
ionizing radiations causing wds. in white rats, eff. of  
ligatures on healing)  
(WOUNDS AND INJURIES, exper.  
induced by ionizing radiations in white rats, eff. of  
ligatures on healing)

BALABAN, I.M., inzhener; FRENKEL', P.M., inzhener; SHERMAN, L.N., arkhitekt

Bearing structures of industrial buildings having roofs made of  
corrugated asbestos cement slabs. Stroil.prom.25 no.1:9-11 Ja'47.  
(MIRA 8:12)

1. Promstroyproyekt  
(Structural frames) (Roofs)

ANDRES, L.M., inzhener; SOKOLOV, P.N., inzhener; SHERMAN, L.N., arkhitekt

Selecting optimum parameters for corrugated asbestos cement slabs  
used for walls and roofs of buildings and structures. Stroi.prom.  
25 no.1:13-15 Ja'47. (MLRA 8:12)

1. Promstroyproyekt (for Andres and Sherman).  
(Asbestos cement) (Walls)



SHERMAN, L.N., laureat Stalinskoy premii, arkhitekto; OVSIANKIN,  
V.I., laureat Stalinskoy premii, arkhitekto; FRENKEL',  
P.M., inzhener; PERSON, M.N., tekhnicheskii redaktor.

[Asbestos cement enclosure sheets for industrial buildings]  
Ograzhdaiushchie konstruktsii iz asbestotsementnykh listov  
dlia promyshlennykh zdani. Moskva, Gos. izd-vo lit-ry po  
stroitel'stvu i arkhitekture, 1952. 326 p. [Microfilm]  
(Asbestos cement) (MLRA 7:12)

AID P - 515

Subject : USSR/Engineering

Card 1/1 Pub. 93 - 2/12

Author : Sherman, L. N., architect, Recipient of Stalin Prize

Title : Construction of machine and tractor repair shops for  
machine and tractor service stations

Periodical : Sbor. mat. o nov. tekhn. v stroit., 6, 3-8, 1954

Abstract : A master plan and construction details of repair shops  
for MTS are described. The plan was worked out by the  
State Institute for the Planning of Agricultural Con-  
struction. 5 diagrams.

Institution : None

Submitted : No date

SHERMAN, L.N., arkhitektor, laureat Stalinskoy premii.

Mass production plans for machine-tractor station buildings.

Stroi.prom.32 no.1:4-9 Ja '54.

(MLRA 7:2)

1. Promstroyproyekt. (Buildings, Prefabricated)  
(Machine-tractor stations)

BORISHANSKIY, M.S., kandidat tekhnicheskikh nauk; GVOZDEV, A.A., professor,  
doktor tekhnicheskikh nauk; MIZERNYUK, B.N., inzhener; NIKITIN, N.V.,  
inzhener; SHERMAN, L.N., arkhitekt

Precast reinforced concrete beams developed by the State Planning  
Institute of Industrial Construction and the Central Scientific  
Research Institute of Industrial Construction. Rats. 1 izobr.  
predl. v stroi. no. 81:20-22 '54. (MIRA 8:6)

(Girders) (Precast concrete construction)

SHERMAN, L.N., arkhitekt, laureat Stalinskoy premii.

Zero-load fixing of external columns and walls to separated axes  
of a building. Stroi. prom. 33 no.9:27-29 S '55. (MLRA 9:1)

1. Promstroyproyekt.  
(Structural frames)

SHERMAN, L.N. arkhitektor.

Skylights with supporting glass panels. Stroi. prom. 36 no.1:20-24  
Ja '58. (MIRA 11:1)

(Skylights)

SHCHIPAKIN, L.N.; SHERMAN, L.N.

Marking foundations for sinking sectional piles. Stroi. prom, 36 no.1:  
43-44 Ja '58. (MIRA 11:1)

(Foundations) (Pile driving)

SHERMAN, L.H., arkhitekter

Experimental plan for redesigning the auxiliary areas of a  
foundry. Prom. stroi. 39 no.7:33-35 '61. (MIRA 14:7)

1. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy  
institut promyshlennykh zdaniy i sooruzheniy.  
(Foundries)



SIENMAN, L.H.

Welfare and cultural services at industrial enterprises. Prom.stroi.  
40 no.6:24-28 '62. (MIRA 15:6)

1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-eksperi-  
mental'nyy institut promyshlennykh zdaniy i sooruzheniy.  
(Employees' buildings and facilities)

SMIRNOV, V.P., inzh., red.; SHERMAN, L.N., arkh., red.

[Construction specifications and regulations] Stroitel'nye normy i pravila. Moskva, Gosstroizdat. Pt.2. Sec.M.ch.3. [Auxiliary buildings and installations for industrial enterprises; specifications for planning] Vspomogatel'nye zdaniia i pomeshcheniia promyshlennykh predpriatii; normy proektirovaniia (SNiP II-M. 3062). 1963. 21 p. (MIRA 17:3)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosstroy SSSR (for Smirnov). 3. Tsentral'nyy nauchno-issledovatel'skiy i proyektno-eksperimental'nyy institut promyshlennykh zdaniy i sooruzheniy (for Sherman).

CHERNOMIR, A. G., KAZAN, V. I., ALIFAN, S. A., POKHIL, T. G., POKHILCHUK, A. I., KALEV, V. I., STAVISKIY, Ya. Y., STRECH, E. A. and SLEZAL, L. Ye.

"Effective Cross-Section Measurements of Fast Neutron Radiation Capture."

paper 1. It was presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13, Sept 58.

89-1-16/29

AUTHOR: Sherman, L. Ye.

TITLE: Determination of the Reaction Cross Section  $U^{238}(n,2n)U^{237}$   
(Izmereniye secheniya reaktsii  $U^{238}(n,2n)U^{237}$ )

PERIODICAL: Atomnaya Energiya, 1958, Vol. 4, Nr 1, pp. 87-88 (USSR)

ABSTRACT: By means of a  $4\pi$ -counting tube the absolute number of  $\beta$ -decay of  $U^{237}$  was determined and herefrom the  $\sigma$ -value for the reaction  $U^{238}(n,2n)U^{237}$  was determined at  $11,24 \pm 1,70$  mb. The uranium sample was irradiated with fast neutrons. There are 2 references, 1 of which is Slavic.

SUBMITTED: August 28, 1957

AVAILABLE: Library of Congress

Card 1/1







TOLSTIKOV, V.A.; SHERMAN, L.Ye.; STAVISSKIY, Yu.Ya.

Measuring the capture cross sections of 5-200 Kev. neutrons for  $U^{238}$   
and  $Th^{232}$ . Atom. energ. 15 no.5:414-415 N '63. (MIRA 16:12)



L 1926-66 EWT(m)/EPF(n)-2/I/EWP(t)/EWP(b)/EWA(m)-2 LJP(c) JD/WW/JG/DM

ACCESSION NR: AP5023774

UR/0089/65/019/003/0292/0294

539.125.523.5

AUTHOR: Stavisskiy, Yu. Ya.; Sherman, L. Ye.

TITLE: Propagation of resonance-energy neutrons in uranium

SOURCE: Atomnaya energiya, v. 19, no. 3, 1965, 292-294

TOPIC TAGS: neutron spectrum, neutron capture, uranium, fission cross section, capture cross section

ABSTRACT: The propagation of neutrons decelerated in large thicknesses of copper through depleted metallic uranium was studied. During the experiment, the capture cross sections of several elements ( $Mn^{55}$ ,  $In^{115}$ ,  $I^{127}$ ,  $Au^{197}$ ,  $U^{238}$ ,  $U^{235}$ ) were determined relative to the fission cross section of  $Pu^{239}$  from the neutron spectrum formed. The measurements were made in a cavity of the uranium lump and by transmission in a spherical geometry. The integral characteristics of the established spectrum are found to be equal to

$$\frac{\sigma_f(U^{238})}{\sigma_f(U^{235})} = 376 \pm 25 \quad \text{and} \quad \frac{\sigma_f(U^{238})}{\sigma_c(Au^{197})} = 2.74 \pm 0.12.$$

L 1926-66

ACCESSION NR: AP5023774

The lower value of  $\frac{\sigma_f(U^{235})}{\sigma_c(Au^{197})}$  indicates that the neutron spectrum formed in this case is appreciably softer. In general, the spectrum established in metallic uranium is found to be dependent (at least for the thickness employed in practice) on the neutron spectrum of the source. The criterion for the establishment of an asymptotic spectrum with definite characteristics (constancy of the cross section ratio  $\frac{\sigma_f(U^{235})}{\sigma_f(U^{238})}$ ) cannot be considered final, since this ratio is sensitive mainly to the hard region of the spectrum. "In conclusion, the authors thank M. N. Nikolayev for useful comments and the staff attending the BR-1 reactor for assistance." Orig. art. has: 1 figure and 1 table.

ASSOCIATION: none

SUBMITTED: 21Jan65

ENCL: 000

SUB CODE: NP

NO REF SOV: 003

OTHER: 002

2/2

SHERMAN, M.E., inzh.

Methods for computing the volume of production and measuring  
labor productivity in construction. Trudy TSNIIIS no. 34:51-106  
'60. (MIRA 13:8)

(Productivity accounting)  
(Building--Estimates)

4

SHERMAN, M.E., starshiy nauchnyy sotrudnik

Improve the index of fulfilling the plan. Transp.stroi. 12  
no.10:34-36 0 '62. (MIRA 15:12)

1. Otdeleniye ekonomiki Vsesoyuznogo nauchno-issledovatel'skogo  
instituta transportnogo stroitel'stva Ministerstva transportnogo  
stroitel'stva.

(Construction industry--Accounting)

*inverted 14, 1/2*

USSR/Chemical Technology. Chemical Products and their Application. J-12  
Glass. Ceramics. Building Materials.

Abs Jour: Referat Zh.-Kh., No 8, 1957, 27689.

Author : M.M. Sherman, L.D. Nezhinskaya, M.N. Ortenberg, F.K. Gol'dshteyn.  
Inst : Students' Scientific Society, Kharkov Polytechnical Institute.  
Title : Drossing Method of Preparing Paste for Manufacturing Ceramic Floor  
Tiles.

Orig Pub: Tr. Stud. nauch. o-va. Khar'kovsk. politekhn. in-t, 1956, 1, No 1,  
61-65.

Abstract: The possibility of the application of the dross method to the  
preparation of paste for manufacturing tiles of the clay from the  
Nikoforovsk and Nikolayevsk deposits is considered. It is noted  
that this method could be applied in practice, should the filtra-  
tion capacity of clays from the above mentioned deposits be in-  
creased. The filtration capacity of clays is increased by decrea-

Card : 1/2

-74-

USSR/Chemical Technology. Chemical Products and their Application.  
Glass. Ceramics. Building Materials.

J-12

Abs Jour: Ref. Zh.-Kh., No 8, 1957, 27689

sing the viscosity of dross (heating to 50°) and the introduction of dehydrated clay into the dross composition. Besides, the possibility of shortening the duration of the wet milling of clays from 6-7 hours to 2-3 hours at the expense of introducing 1% of sulfite-alcohol vinasse into dross was established.

Card : 2/2

-75-

APPROVED FOR RELEASE: 07/13/2001

CIA-RDP86-00513R001549120005-

AUTHOR:

Sherman, M.S., Engineer

TITLE:

A Variant of the Suspension of a High-Frequency Choking Coil (Variant podveski vysokochastotnogo drosselya)

PERIODICAL:

Energetik, 1958, Nr 5, pp 25-26 (USSR)

ABSTRACT:

High-frequency choking coils, type KZ-500, are used in electric power lines in front of the circuit breakers. The suspension of these choking coils presents several problems. On 110/35 kv and 35/6 kv substations the coil can only be suspended from the wire of the line. The coil weighs 150 kg. If 2 coils are necessary the wire has to carry a weight of 300 kg. In many cases special supporting structures have to be built. If the choking coil is suspended from the wire of the power line, operating conditions are adversely affected. In Figures 1 and 2, a new method for suspending choking coils is proposed. These suspensions facilitate the operation of the power line without necessitating additional structures. There are 2 figures.

AVAILABLE:

Library of Congress

Card 1/1

1. Coils - Application

SHERMAN, M.S.

Clamp for suspension of a high-frequency choke.. Energetik 8  
no.6:18-19 Je '60. (MIRA 13:7)  
(Electric lines--Overhead)  
(Electric apparatus and appliances)

SHERMAN, M.S., inzh.

High frequency communication channels in case of partial utilization  
of the conductors of electric transmission lines. Energetik 10 no.7:  
20-21 JI '62. (MIRA 15:7)

(Electric power distribution)



SHERMAN, M. YA.

PA 153T51

USSR/Engineering - Refractories  
Dryers

Nov 49

"Automatization of the Tunnel Driers of the Chamotte  
Shops of Krasnogorodskiy Plant imeni Lenin,"  
M. Ya. Sherman, Engr, 8 pp

"Ogneupory" No 11

Cen Automatics Lab automatized block of nine driers.  
Explains drying operation, and methods employed  
for control of moisture, pressure, flow and  
temperature of air. Another five blocks are being  
automatized during 1949. Designs for serial pro-  
duction of low-cost moisture regulator are under  
way. Includes seven sketches.

153T51

SHERMAN, M. Ya.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 98 - I

Call No.: TN 673.T6

BOOK

Author: TOPERVERKH, N.I. and SHERMAN, M.Ya.

Full Title: THERMOTECNICAL MEASURING AND REGULATING INSTRUMENTS IN METALLURGICAL PLANTS

Transliterated Title: Teploekhnicheskie izmeritel'nyye i reguliruyushchie pribory na metallurgicheskikh zavodakh.

Publishing Data

Originating Agency: None

Publishing House: State Publishing House on Scientific and Technical Literature on Ferrous and Non-Ferrous Industries.

Date: 1951

No. pp.: 430

No. of copies: 7,000

Editorial Staff

Editor: L'vov, M.A.

Editor-in-Chief: None

Tech. Ed.: Vaynshteyn, E.B.

Appraiser: None

Text Data

Coverage: The book examines controlling, measuring, and regulating devices for the automatic regulation of the heating processes in metallurgical furnaces. Basic information on the assembly and layout of instruments is presented.

Purpose: A textbook for metallurgical students specializing in blast furnace, alloy, and rolled steel processes.

Facilities: Institute of Automatics and Telemechanics of the Academy of Sciences of the USSR, Central Laboratory of Automatics. Koshtyal, Yu.F.,

1/2

SHERMAN, M. Ya.

Teplotekhnicheskie izmeritel'nyye i reguliruyushchie  
pribory na metallurgicheskikh zavodakh

Call No.: TN 673.T6

Maslovskiy, P. M., Gudovshchikov, S. S., Zuts, K. A., Shneerov, Ya. A.,  
Makarov, A. N., Fil'tser, G. A. and Zvenigorodskiy, B. M. received  
Stalin prizes for their work in introducing automatic regulation  
instruments into Marten and blast furnace operation.

No. of Russian or Slavic References: 22

Available: Library of Congress.

2/2

MAKAROV, A.N.; SHEERMAN, M.Yu.

[Calculation of throttle valves for measurement and control] Raschet izme-  
ritel'nykh i reguliruiushchikh drossel'nykh ustroistv. Moskva, Gos. nauchno-  
tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1953. 283 p.  
(MLBA 6:9)  
(Valves)

ARONOV, Samuil Grigor'yevich; BAUTIN, Ivan Grigor'yevich; VOLKOVA, Zoya Andreyevna; VOLOSHIN, Arkhip Il'ich; VIROZUB, Yevgeniy Vladimirovich; GABAY, Lev Izrailevich, DIDENKO, Viktor Yefimovich; ZASHKVARA, Vasily Grigor'yevich; IVANOV, Pavel Aleksandrovich, KUSTOV, Boris Iosifovich [deceased]; KOTOV, Ivan Konstantinovich; KOTKIN, Aleksandr Matveevich; KOMANOVSKIY, Maksim Semenovich; LEYTES, Viktor Abramovich, MOROZ, Mikhail Yakovlevich; NIKOLAYEV, Dmitriy Dmitriyevich. OBUKHOVSKIY Yakov Mironovich; RODSHTEYN, Pavel Moiseyevich; SAPOZHNIKOV, Yakov Yudovich, SENICHENKO, Sergey Yefimovich; TOPORKOV, Vasily Yakovlevich; CHERMNYKH Mikhail Sergeyevich; CHERKASSKAYA, Esfir' Ionovna, SHVARTS, Semen Aronovich; SHERMAN, Mikhail Yakovlevich; SHVARTS, Grigoriy Aleksandrovich; LIBERMAN, S.S., redaktor izdatel'stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Producing blast furnace coke of uniform quality; a collection of articles for the dissemination of advanced practices] Poluchenie domennogo koksa postoiannogo kachestva; sbornik statei po obmenu peredovym opytom. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1956. 300 p. (MLRA 9:8)  
(Coke industry)

TOPERVERKH, Nikolay Isaakovich; SHERMAN, Mendel' Yakovlevich; MAKAROV, A.N.,  
redaktor; CHELYUSTKIN, A.B., redaktor; MIKHAYLOVA, V.V., tekhnicheskii  
redaktor

[Thermal measuring and regulating devices in metallurgy] Teplotekhnicheskie  
izmeritel'nye i reguliruiushchie pribory na metallurgicheskikh zavodakh.  
Izd. 2-oe, perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po  
cherno i tsvetnoi metallurgii, 1956. 606 p. (MLRA 10:1)  
(Metallurgy--Apparatus and supplies)

SHERMAN, M.Ya., inzhener.

Automatic correction of consumption gauge indexes. Stal' 16 no.3:  
257-259 Mr '56. (MIRA 9:7)

1. TSentral'naya laboratoriya avtematiki.  
(Gasometers and gasemetry)

5(1)

SOV/112-59-3-5626

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 3, p 193 (USSR)

AUTHOR: Sherman, M. Ya.

TITLE: Automation of the By-Product Coke Industry  
(Avtomatizatsiya koksokhimicheskogo proizvodstva)

PERIODICAL: V sb.: Avtomatiz. khim. i koksokhim. proiz-v. M., Metallurgizdat,  
1958, pp 224-248

ABSTRACT: A review of the state of automation in the by-product coke industry  
and of the objectives of complex automation of processes in the major depart-  
ments of a coke and chemical plant is presented. Fifteen illustrations.  
Bibliography: 2 items.

Card 1/1



SHERMAN, M. Ya.

68-1-5/22

AUTHORS: Virozub, I.V., Voloshin, A.I., Kazmina, V.V., and Sherman, M.Ya.

TITLE: The Control of Thermal Conditions of Coke Ovens (Regulirovaniye teplovogo rezhima koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1958, No.1, pp. 17 - 24 (USSR)

ABSTRACT: Some relationships between various parameters affecting thermal conditions of coke ovens are discussed in order to indicate the basis for choosing some parameters as sources of impulses for the automatic control of the coke oven heating system. UKhIN and TsLA (Central Laboratory of Automation) proposed a system of automatic control of thermal conditions of coke ovens which secures a constant supply of heat and a constant excess of air coinciding at a constant temperature of air in the tunnel, with a constant suction at the top of the regenerators in the ascending stream. The proposed system is described in some detail (Figs. 1 and 2). It was installed on the No. 1 battery of the Zaporozhsk Coke Oven Works (Zaporozh'ye koksokhimicheskiy zavod) and operated for about two years with satisfactory results. In addition to the described method of direct control of the supply of heat, three other indirect methods were installed and operated in the Soviet Union: 1) a scheme proposed by V.G. Mosyakov. The

Card 1/3

The Control of Thermal Conditions of Coke Ovens.

68-1-5/22

at the top of the regenerators. This method with some modifications was used for the above described TsLA-UKhIN method. In conclusion, the authors point out that further studies of the methods used is necessary in order to choose the best elements from each method for the development of a scheme for complete automation of heating coke ovens.

There are 4 figures and 6 Slavic references.

ASSOCIATIONS: UKhIN and TsLA

AVAILABLE: Library of Congress  
Card 3/3

Making preparations of vitamin B complex, suitable  
 for parenteral administration. S. N. Komarov and O. S.  
 Sherman. *Proc. Soc. Inst. Vitamin Research U. S. S. R.*  
 4, No. 1, 98-104 (1941).—A simplified method has been  
 developed for prep. B vitamins (chiefly B<sub>2</sub>) from fresh  
 brewers' yeast for parenteral administration. No expts.  
 were made with aq. alc. because of its cost; full attention  
 was given to extn. with hot water. Flavin (I) and B<sub>2</sub> do  
 not respond to the same extn. conditions. Yield of B<sub>2</sub>  
 was doubled, whereas yield of I was decreased, by preau-  
 tolysis of the yeast in presence of CHCl<sub>3</sub> at 37° or by extg.  
 the boiled yeast 24 hrs. at room temp. The optimum con-  
 ditions for extg. I are pH 4, boiling time about 30 min.,  
 for B<sub>2</sub>, pH 5-6, boiling time 2-5 min. Both I and B<sub>2</sub> are  
 about 80% recovered from the aq. ext. by adsorption on  
 gummi, a Camasian bleaching earth, at pH 3.5-4.5  
 in 10-30 min. Elution with satd. aq. NH<sub>4</sub>Cl recovers  
 about 80% of the adsorbed B<sub>2</sub> and is superior to the per-  
 coline method of Greene and Black (C. A. 31, 6307). A  
 2% NaOH soln. was used for elution of I. The B<sub>2</sub> eluate  
 was extd. with 88% PhOH, which was then dild. with EtOH  
 and extd. with H<sub>2</sub>O in small portions. The final aq. ext.  
 contained about 60% of the adsorbed B<sub>2</sub>. To recover I  
 the 2% NaOH eluate was acidified with HCl, satd. with Na-  
 Cl and extd. with 88% EtOH. By fractional elution a com-  
 bined eluate was finally obtained with 0.15 mg. I and 1.5  
 mg. B<sub>2</sub> per ml. Presence of all the B vitamins in this  
 prepn. was indicated by a biol. assay. I. F. Smith

12

Vitamin B<sub>1</sub> assays in food products. O. S. Sherman.  
*Proc. Sci. Inst. Vitamin Research U. S. S. R.* 3, No. 1,  
 114-23(1941).—Systematic chem. assays were carried out  
 for 10 months to det. the vitamin B<sub>1</sub> content of rye and  
 wheat flours and buckwheat, barley and millet grits.  
 After comparing published extrn. methods S. adopted his  
 own method (cold extrn. with inorg. acid, aided by tritura-  
 tion). Each ext. was oxidized with alk. ferricyanide (to  
 form thiochrome, which was extd. with isobutanol.  
 Fluorescence of the ext. was then measured in ultraviolet  
 light. Results agreed well with biol. assays. The 10-  
 month averages were:

Sample	Grade	B <sub>1</sub> per g of dry matter
Rye flour	95%	3.74
Rye flour	87%	3.76
Rye flour	96%	6.57
Wheat flour	85%	4.37
Wheat flour	72%	2.13
Wheat flour	Grits	6.19
Buckwheat	Grits	3.0
Barley	Cracked	4.80
Millet	Crushed	4.25
Millet	Ground	2.51

Vitamin B<sub>1</sub> proved to be stable (no loss in 7 months) when  
 stored in a dry environment. Julian F. Smith

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

SHERMAN, O. S.

SHERMAN, O. S. -- "Vitamin B<sub>1</sub>-- methods of its determination, content in Food Products, and Preservation During Culinary Processing." Latvian State U, 1948  
(Dissertation for the Degree of Candidate of Chemical Sciences)

SO: Izvestiya Ak. Nauk Latvyskoy SSR, No. 9, Sept., 1955

SM-RUN-90.8.

U.S.D.A.

The vitamin content of raw foods and the effect of cooking.  
O. S. Sherman. *Trudy Vsesoyuz. Nauch.-Issledovatel.*  
*Vitamin. Fiz. 4, 196-202 (1963).*—Boiling potatoes, cabbage,  
and carrots reduces their vitamin B<sub>1</sub> content 8-13%.  
During boiling, frying, or braising meat loses 97-99% of  
vitamin B<sub>1</sub>. Boiling milk or eggs does not reduce their  
vitamin B<sub>1</sub> content noticeably. Other foods lose some of  
their vitamins in the various hot processes of prepn.

B. S. Levine.

U S S R

2235. Colorimetric method for the determination of ~~thiamine~~ in industrial preparations. O. S. Sherrin and S. M. Kogan (Tr. Vses. N.-I. Vses. Khim., 1953, 4, 230-234; Referativnyi Zh., 1954, Abstr. No. 45,160).—In an alkaline medium thiamine (I) reacts with diazotised *p*-aminoacetophenone (II) to form a coloured compound, which can be measured absorptometrically. I is separated from biological materials by shaking an aqueous extract at pH 2 to 4.5 with white Chapanatinsky clay, which adsorbs 90 to 95 per cent. of I. The adsorbate is washed with ethanol and ether and dried at 70° to 80° C. II is diazotised at 0° to 6° C by stirring a solution (0.169 g of II + 2.25 ml of HCl soln., sp. gr. 1.19, + water to 25 ml) with an equal volume of 4.5 per cent. NaNO<sub>2</sub> soln. for 10 min.; four times its vol. of NaNO<sub>2</sub> soln. is then added to the mixture and it is set aside for

AN 24

*O. S. Shiman*

20 min. To determine I, 0.5 ml of the diazotised soln. of II is mixed with 2 ml of a soln. containing 2 per cent. of NaOH and 2-88 per cent. of  $\text{NaHCO}_3$  and, when the rose colour has disappeared (1 to 1.5 min.), the mixture is poured into a cylinder containing 0.1 to 0.2 g of adsorbate (3 to 25  $\mu\text{g}$  of I), 1 ml of water and 3 ml of 0.5 per cent. ethanolic soln. of phenol. After mixing for 20 to 30 min., 2 ml of xylene are added and the mixture is shaken for 1-2 to 2 hr. The intensity of the colour in the xylene layer is compared with standards prepared from cryst. I, the amount of I in these standards increasing in steps of 2  $\mu\text{g}$ . For polyvitamin preparations, the vitamin C is first oxidised. Five tablets are treated with 250 ml of water containing 0.5 ml of 1 per cent. HCl soln. A 1 per cent.  $\text{KMnO}_4$  soln. is added to 35 ml of this soln. until a rose colour persists; the soln. is decolorised with 0.3 per cent.  $\text{H}_2\text{O}_2$  soln., diluted to 50 ml with water and filtered. One ml of the filtrate is used for the analysis. The results agree with those obtained by the thiochrome method.

E. Hayes

2/3



BEKESHCHEV, N., red.; OGNEV, O., red.; SHERMAN, R., red.; TURABAYEV, B.,  
tekhn. red.

[Famous for their work] Proslavlennye trudem. Alma-Ata, Kazakhskoe gos. izd-vo, 1960. 286 p. (MIRA 15:4)  
(Kazakhstan—Agriculture)

NASONOV, Vladimir Stepanovich, kand. ekon. nauk; SHERMAN, R.,  
red.; NAGIBIN, P., tekhn. red.

[A mechanized center for each state farm] Mekhanizirovan-  
nyi zernopunkt - kazhdomu sovkhozu. Alma-Ata, Kazsel'khoz-  
giz, 1963. 62 p. (MIRA 17:1)

$$I_{\text{R}} = \frac{V}{R} = \frac{10}{100} = 0.1 \text{ A}$$

1. The following is a list of the names of the persons who have been identified as having been in contact with the subject of this investigation, and who have been identified as having been in contact with the subject of this investigation, and who have been identified as having been in contact with the subject of this investigation.

[illegible]

S. 100, p. 1.

Vorobey, V. A. and S. A. "Zinc-coating of iron in  
a corrosive medium," Investiya Khimichesk. Tekhn.,  
No. 1, Vol. VIII, 1968 (no cover: 1968), p. 157-58.

90: 10-11, 12 December 1968, (Leningrad: Zhurnal Vyssh. Shkoly, No. 1, 1968)

POZDNYAKOV, Petr Mikhaylovich, kandidat biologicheskikh nauk; SHERMAN, R.N.,  
redaktor; ZLOBIN, M.V., tekhnicheskiiy redaktor

[Artificial insemination of sheep] Iskusstvennoe osemeneniye ovets.  
Alma-Ata, Kazakhskoe gos. izd-vo, 1956. 30 p. (MLRA 9:10)  
(Sheep breeding)  
(Artificial insemination)

TSOY, V.P., red.; SHERMAN, R.<sup>N</sup>, red.; NAGIBIN, P., tekhn.red.

[Sugar beets] Sakharnaia svekla. Izd. 2., dop. 1 perer.  
Alma-Ata, Kazakhskoe gos. izd-vo, 1958. 171 p. (MIRA 12:2)  
(Sugar beets)

RASHCHENKO, Ivan Nazarovich; SHERMAN, R.N., red.; OYSTRAKH, V.G.,  
tekhn. red.

[Homemade cured food, preserves, and marinades] Domashnie  
solen'ia, varen'ia i marinady. Alma-Ata, Kazakhskoe gos. izd-  
vo, 1962. 221 p. (MIRA 16:2)

(Canning and preserving)

SAKHAROV, I.; GNEZDILOV, Yu.; SENNIK, V.; MALAKHOV, V.; SHERMAN,  
R.N., red.; KUZEMBAYEVA, A., tekhn. red.

[Use of machines and tractors on collective farms] Eksplu-  
atatsiia mashinno-traktornogo parka v kolkhozakh. Alma-Ata,  
Kazakhskoe gos.izd-vo, 1961. 178 p. (MIRA 16:4)  
(Kazakhstan--Agricultural machinery)



ROZENFEL'D, I.L.; RUBINSHTEYN, F.I.; YAKUBOVICH, S.V.; SHERMAN, R.S.;  
UVAROV, A.V.

Studying the protective effect of oil paints modified with  
chromic acid guanidine. Lakokras.mat.i ikh prim. no.6:11-15  
'62. (MIRA 16:1)

(Protective coatings) (Guanidine)

SHERMAN, R. Z., AND YE. KH. GANYUSHINA

"Syvorotochnaya bolezni' (Serum Sickness), Biomedgiz, 1936

**Blood cholesterol in malarial children.** R. Z. Sherman. *Pediatrics* 1946, No. 6, 38-9. Studies on 34 patients up to 12 yrs. of age, showed that before therapy, during the cholesterolemia the cholesterol (Ch) content of blood was 150-180 mg. % in 6 cases and 30-130 mg. % in 28 cases. At the onset of fever the av. Ch level was 107.4 mg. %. On treatment with acricheine the Ch level was normal in 10 cases, 130-150 mg. % in 6 cases and 190-210 mg. % in 3 cases. In 15 cases the Ch level remained low (70-130 mg. %) after treatment. Hypocholesterolemia is not always an indicator of the gravity of the disease. E. Laanes

ASB 364 METALLURGICAL LITERATURE CLASSIFICATION

**CIA-RDP86-00513R001549120005-4"**

113

10a

**Bilirubinemia in malarial children.** R. Z. Sherman.  
*Pediatrics* 1940, No. 6, 39-40. - Conclusions based on 112  
 detns. in 67 children: On the assumption that the normal  
 bilirubin content (I) of blood is 0.2-0.8 mg. %, the I is  
 higher before therapy, during apyrexia and at the onset of  
 an attack. On therapy with *acridine*, with or without  
 plasmodicide, the I decreases but does not descend to nor-  
 mal. The degree of bilirubinemia during an attack de-  
 pends on the gravity of the latter. On completion of  
 therapy, in relapsing cases, the I remains high. The detn  
 of I during malaria is valuable for prognostic purposes.  
 T. Laanes

ASB 35.4 METALLURGICAL LITERATURE CLASSIFICATION

SHERMAN, R.Z.

PA 46/49T76

USSR/Medicine - Malaria, Therapy  
Medicine - Pediatrics

Mar 49

"Particulars of the Clinical Aspects and Treatment of Malaria in Children," R. Z. Sherman, Clinic, Pediatrics Faculty, Second Moscow Med Inst imeni I. V. Stalin, 2 pp

"Sov Med" No 3

Incidence of malaria in USSR in 1948 was ~~about~~ to one fourth of the 1935 figure. Summarizes, speech on 1948 results and 1949 plans by Prof I. I. Razonin, chief, Main Sanitary Antiepidemic Administration.

46/49T76

SHERMAN, R. Z., DR MED SCI

USSR/Medicine - Antibiotics

Jun 51

"Treatment of Bacillary Dysentery of Children With Synthomycin," R. Z. Sherman, Dr Med Sci, Ye. V. Prokhorovich, Laureate Stalin Prize, S. A. Mirkina, Moscow, Children's Clinical Hosp, Moscow

"Klin Med" Vol XXIX, No 6, pp 26-32

Synthomycin (synthesized in 1949 at Lab of Exptl Chemotherapy of Infectious Diseases, All-Union Sci Res Chem Phar Inst imeni S. Ordzhonikidze) is very effective in dysentery of young children which cannot be treated with serum, bacteriophage, or sulfa drugs. (The bacteria develop resistance to sulfa drugs.) Toxicosis is rapidly eliminated by treatment  
198752

USSR/Medicine - Antibiotics (Contd)

Jun 51

with synthomycin, so that a normal diet can be restored. When there is retching, the drug can be administered rectally. Subcutaneous injection is not essential.

198752

YERMOL'YEVA, Z.V.; SHERMAN, R.Z.; RAVICH, B.V.; YAKIMOVA, M.P.

Results of the treatment of dysentery with streptomycin associated with ecmoline. Klin. med., Moskva 31 no.2:26-30 Feb 1953. (CML 24:3)

1. Professor, Doctor Medical Sciences for Sherman; Candidate Biological Sciences for Ravich. 2. Moscow.

SHERMAN, R.Z., doktor meditsinskikh nauk (Moskva); TATARINOVA, S.D. (Moskva);  
YAKIMOVA, M.P. (Moskva)

Results of treating chronic dysentery in children with synthomycin  
and streptomycin with ecmoline. Klin.med. 34 no.7:90 J1 '56.

(MLRA 9:10)

1. Iz kafedry mikrobiologii (zav. - chlen-korrespondent AMN SSSR  
prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya  
vrachey (dir. V.P.Lebedeva) i yasley Moskvoretskogo rayona (zav.  
M.P.Yakimova)

(DYSENTERY) (ANTIBIOTICS)



SHEVYAKOVA, O.I.; SHERMAN, R.Z.; TATARINOVA, S.D.

Oxytetracycline and bacteriophage therapy of dysentery in children.  
Antibiotiki 3 no.6:99-102 H-D '58. (MIRA 12:2)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V. Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya vrachey i gorodskiy detskiy bol'nitsy No.6 (glavnyy vrach D.G. Naumova) i No.24 (glavnyy vrach Ye.Z. Katkova).

(DYSENTERY, BACILLARY, in inf. & ther.

ther., bacteriophage & oxytetracycline (Rus))

(OXYTETRACYCLINE, ther. use,

dysentery in child., with bacteriophage (Rus))

(BACTERIOPHAGE, ther. use,

dysentery in child., with oxytetracycline (Rus))

SHEVYAKOVA, O.I.; SHERMAN, R.Z.; TATARINOVA, S.D.

Use of a combination of levomycetin and bacteriophage in dysenterial infection in children. Antibiotiki 6 no.3:241-243 Mr '61.

(MIRA 14:5)

1. Kafedra mikrobiologii (zav. - chlen-korrespondent AMN SSSR prof. Z.V.Yermol'yeva) Tsentral'nogo instituta usovershenstvovaniya vrachey i 6-ya Gorodskaya detskaya bol'nitsa (glavnyy vrach D.G.Naumova).  
(CHLOROMYCETIN) (BACTERIOPHAGE)  
(DYSENTERY)

SHERMAN, R.Z.; SHCHUKOVA, O.I.; TATARCHOVA, S.D.

Treatment of dysentery in children with tetracycline together with  
a bacteriophage. Sov.med. 25 no.7:91-95 J1 '61. (MLA 15:1)

1. Iz kafedry mikrobiologii (zav. - chlen-korrespondent AMN SSSR  
prof. Z.V.Yermol'yeva) TSentral'nogo instituta usovershenstvovaniya  
vrachey (dir. M.D.Kovrigina) i 6-y Gorodskoy detskoy bol'nitsy  
(glavnyy vrach D.G.Naumova)  
(BACTERIOPHAGE) \* (TETRACYCLINE) (DYSENTERY)

SHERMAN, R.Z.; SHEVYAKOVA, O.I.; TATARINOVA, S.D.

Antibiotics in pediatrics (dysentery, coli-enteritis, pneumonia)  
Antibiotiki 7 no.8:749-757 Ag '62. (MIRA 15:9)

(ANTIBIOTICS) (DYSENTERY) (INTESTINES--DISEASES) (PNEUMONIA)

AGABABOVA-SKOBELEVA, V.V., kand. med. nauk; DOBROKHOTOVA, A.I., prof. [deceased]; ZHUKOVSKIY, M.A., kand. med. nauk; LEBEDEV, D.D., zasl. deyatel' nauki prof.; MARTINSON, Kh.S., kand. med. nauk; MOLCHANOV, V.I., prof.; NOSOV, S.D., prof.; SCBOLEVA, V.D., doktor med. nauk; SOLOV'YEV, V.D., prof.; SUKHAREVA, M.Ye., prof.; SHAPIRO, S.L., kand. med. nauk; SHERMAN, R.Z., doktor med. nauk; SHIRVINDT, B.G., prof.; DOMBROVSKAYA, Yu.F., otv. red.; POTAPOVA, I.N., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Multivolume manual on pediatrics] Mnogotomnoe rukovodstvo po pediatrii. Moskva, Medgiz. Vol.5.[Infectious diseases in children; aerial and droplet infections] Infektsionnye bolezni v detskom vozraste; vozdushno-kapel'nye infektsii. Red. toma S.D.Nosov. 1963. 547 p. (MIRA 16:6)

1. Chlen-korrespondent Akademii meditsinskikh nauk SSSR (for Skobeleva, Solov'yev). 2. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Dombrovskaya).

(PEDIATRICS) (COMMUNICABLE DISEASES)

On 10/1/64, R. L. ... 10/1/64, ...

Operation ...  
Laboratory and bacteriology. ...  
(YIP) 10/1/64

SHERMAN, R.Z.; SHEVYAKOVA, O.I.; TATARINOVA, S.D.; SHUMOVA, B.I.;  
GOL'TSEKER, A.I.; KOLESNIKOVA, Yu.S.

Bacteriophage and tetracycline in the prevention of dysentery  
among contact children. Antibiotiki 10 no. 10:948-952  
O '65. (MIRA 18:12)

1. Kafedra mikrobiologii (zav. - deystvitel'nyy chlen AMN SSSR  
prof. Z.V. Yermol'yeva) ISentral'nogo instituta usovershenstvo-  
vaniya vrachey i Sanitarno-epidemiologicheskoy stantsii (glavnyy  
vrach I.F. Krasavin) Kiyevskogo rayona, Moskva. Submitted  
Dec. 13, 1963.

ACCESSION NR: AP4013420

S/0057/64/034/002/0313/0320

AUTHOR: Abrosimon, N.K.; Kaminker, D.M.; Petrov, I.A.; Sherman, S.G.

TITLE: On the theory of a duct consisting of magnetic quadrupole lenses for obtaining pure beams of  $\mu$ -mesons of various energies

SOURCE: Zhurnal tekhn.fiz., v.34, no.2, 1964, 313-320

TOPIC TAGS: meson,  $\mu$ -meson,  $\pi$ -meson,  $\mu$ -meson duct, magnetic lens, quadrupole magnetic lens, magnetic lens system, momentum selector

ABSTRACT: The theory of the so-called  $\mu$ -meson duct is discussed (A.Citron a. H. Overas. Report CERN sc.,143,1961; E.Braunersreuther, V.Chabaud, C.Delorme and M. Morugo, Report CERN 61-12,1961). The duct consists of a sequence of identical and equally spaced magnetic quadrupole lenses so oriented that the successive convergence planes are perpendicular to each other, and is intended for obtaining a beam of  $\mu$ -mesons from the decay in flight of  $\pi$ -mesons. Previous theoretical treatments have restricted the discussion to the case of thin lenses. The results of the present paper are valid for lenses of arbitrary thickness (length). The equation of

Card 1/2



SHERMAN S G.  
MATUSEVICH, I.Z.; SHERMAN, S.S.

Expert diagnosis of working disability in peptic ulcer in the  
post-war period. Sovet.vrach.sborn. no.17:30-33 S '49.(CLML 19:2)

1. Clinic of the Leningrad Institute for Determination of Working  
Capacity and for Rehabilitation of Invalids.

SHETMAN, S. G.; SOBOL'WA, A. V.; VELIKSON, I. M.; MAKHILINA, V. B.

Lungs - Diseases

Clinico-functional method of determination of the state of respiratory insufficiency in chronic non-tuberculous pulmonary diseases. Klin. med. 30 no. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, September 1952. UNCLASSIFIED.

*SHERMAN, S.G.*

SHERMAN, S.G.; FAYNSHTEYN, S.S.

Organization of the employment of pulmonary tuberculosis patients.  
(MIRA 8:4)  
Probl.tub. no.1:9-13 Ja-F '55.

1. Iz Leningradskogo nauchno-issledovatel'skogo instituta ekspertizy  
trudospособnosti i trudoustroystva invalidov.  
(TUBERCULOSIS, PULMONARY, economics,  
employment)  
(INDUSTRY AND OCCUPATIONS,  
employment in pulm. tuberc.)

CHAYKA, V.V., doktor med.nauk; SHERMAN, S.G., starshiy nauchnyy sotrudnik

Functional evaluation of a system of respiration in tuberculosis  
patients working in cotton thread spinning plants. Vrach.delo no.5:  
541 My '59. (MIRA 12:12)

1. Leningradskiy nauchno-issledovatel'skiy institut tuberkuleza.  
(RESPIRATION) (TUBERCULOSIS)